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[1. AF153-001: Global Surveillance Augmentation Using Commercial Satellite Imaging Systems](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

* DIRECT TO PHASE II * TECHNOLOGY AREA(S): The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), 22 CFR Parts 120-130, which controls the export and import of defense-related material and services, including export of sensitive technical data, or the Export Administration Regulation (EAR), 15 CFR Parts 730-774, which controls dual use items. ...

SBIR Air Force Department of Defense

[2. AF153-002: Handheld Dismount Kit for Persistent, Precision Navigation in GPS-challenged Environments for Military Operations](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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SBIR Air Force Department of Defense

[3. AF153-003: Additive Manufacturing to Support 100% Parts Availability](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[4. AF153-004: Additive Manufacturing of Masking to Support Turbine Engine Sustainment](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

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[5. CBD15C-001: Infectious Disease Diagnostics and Differentiation of Viral vs. Bacterial Infections for Point of Care Applications](#)

Release Date: 08-27-2015 Open Date: 09-28-2015 Due Date: 10-28-2015 Close Date: 10-28-2015

TECHNOLOGY AREA(S): Chemical/Biological Defense; Biomedical OBJECTIVE: To provide an easy to use human clinical diagnostic testing technology which is effective for the detection, identification and differentiation of a wide range of viral and bacterial diseases caused by endemic diseases and biological warfare agents. Capabilities sought should be rapid and highly sensitive and selective sol ...

STTR Office for Chemical and Biological Defense Department of Defense

[6. CBD152-001: Adjustable Focus Lenses for Respiratory Protection](#)

Release Date: 04-24-2015 Open Date: 05-22-2015 Due Date: 06-24-2015 Close Date: 06-24-2015

Current respiratory protection systems require optical inserts for wearers requiring optical correction. Use of optical correction inserts limit optical compatibility with night vision goggles and weapon systems due to the added eye relief. One reason individual high index lenses are not used is because they cost seven times more than vision correction inserts. Additionally, polycarbonate lenses h ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

7. CBD152-002: Smart Split Neck Seals for Respiratory Protection

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Current respiratory protection neck seal systems do not incorporate smart sensing technologies. Current neck seal systems are simply basic circular rubber cut-outs and are required to be constructed of one continuous piece of material. Many wearers find traditional neck seals to be uncomfortable. Respiratory protection systems utilized for fixed wing aircraft pilots (e.g. JSAM-FW, AR-5, and AERP), ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

8. CBD152-003: Development of Mycotoxin Medical Countermeasures

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

Mycotoxins are toxins produced by several species of fungi. Exposure to these toxins can result in incapacitation or even death of the exposed subject. From a biological warfare perspective, mycotoxins are relatively easy to produce in large quantities and many of them have nearly effortless accessibility. For these reasons, mycotoxins present a real threat to the warfighter. Trichothecene (T-2), ...

SBIR Office for Chemical and Biological DefenseDepartment of Defense

9. CBD152-004: Exploiting Microbiome and Synthetic Biology to Discover and Produce Naturally Occurring Antibiotics

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The explosion in the “omics” field has allowed for unprecedented genetic identification of some of the billions of bacteria that comprise the world of the microbiome. A potential wealth of information is available through the study of species that have developed sophisticated defense mechanisms to protect themselves from the onslaught of foreign invaders. Recent examples include the microbiome ...

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10. CBD152-005: High Sensitivity, Low Complexity, Multiplexed Diagnostic Devices

Release Date: 04-24-2015Open Date: 05-22-2015Due Date: 06-24-2015Close Date: 06-24-2015

The U.S. Department of Defense requires infectious disease in vitro diagnostic (IVD) capabilities that are operationally suitable for use in far forward military environments and operationally effective versus a wide range of threats. Current single use disposable Lateral Flow Immunoassay-based diagnostic tests have many desirable operational suitability

characteristics (low cost, minimal training ...

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